## **AMENDMENTS TO THE CLAIMS:**

The following listing of claims replaces all prior listings, and all prior versions, of claims in the application.

## **LISTING OF CLAIMS:**

- (Currently amended) A method of fabricating a semiconductor integrated circuit device, comprising the steps of:
  - (a) forming a gate insulating film over a semiconductor wafer;
- (b) depositing a gate electrode forming film having an SiGe layer over the gate insulating film;
- (c) forming at least one electrode having the SiGe layer by patterning the gate electrode forming film; and
- (d) after the step (c), subjecting the semiconductor wafer to a plasma processing in an atmosphere of a mixed gas of (a) a first gas less reactive withte Ge as compared to reactivity of with oxygen gas with Ge and (b) a second gas having a function of etching Si.

## 2. - 4. (Cancelled).

- 5. (Original) A method of fabricating a semiconductor integrated circuit device according to Claim 1, wherein the second gas is a gas including fluorine.
- 6. (Original) A method of fabricating a semiconductor integrated circuit device according to Claim 5, wherein the gas including fluorine is CHF<sub>3</sub>.

- 7. (Original) A method of fabricating a semiconductor integrated circuit device according to Claim 1, wherein a concentration of the first gas is relatively higher than a concentration of the second gas.
- 8. (Original) A method of fabricating a semiconductor integrated circuit device according to Claim 1, wherein a concentration of Ge of the SiGe layer is equal to or larger than 10% of a total thereof.
- 9. (Original) A method of fabricating a semiconductor integrated circuit device according to Claim 1, wherein a concentration of Ge of the SiGe layer is equal to or larger than 20% of a total thereof.
- 10. (Original) A method of fabricating a semiconductor integrated circuit device according to Claim 1, wherein a concentration of Ge of the SiGe layer is equal to or larger than 40% of a total thereof.
- 11. (Original) A method of fabricating a semiconductor integrated circuit device according to Claim 1, wherein a side etching amount at two side faces of the at least one gate electrode, after the step (d), is equal to or smaller than 40% of a length, in a channel length direction, at a portion of the gate electrode forming film left after the step (c) other than the SiGe layer.
- 12. (Previously presented) A method of fabricating a semiconductor integrated circuit device according to Claim 1, wherein a width of the SiGe layer of

the at least one gate electrode is substantially equal to that of other layers of the at least one gate electrode, after the step (d).

- 13. (Original) A method of fabricating a semiconductor integrated circuit device according to Claim 1, wherein at least two gate electrodes are formed in the step (c), and wherein a field effect transistor of an n-channel type and a field effect transistor of a p-channel type having the gate electrodes are formed at the semiconductor wafer.
- 14. (Original) A method of fabricating a semiconductor integrated circuit device according to Claim 1, wherein the semiconductor wafer after the step (c) is transferred to the step (d) in a state of maintaining a vacuum state.
- 15. (Original) A method of fabricating a semiconductor integrated circuit device according to Claim 1, wherein the step (b) includes a step of introducing boron to the gate electrode forming film.
- 16. (Original) A method of fabricating a semiconductor integrated circuit device according to Claim 1, wherein the step (b) includes a step of depositing a silicon layer over the SiGe layer, and, after the step (d), the method further comprises the steps of:
- (e) forming side wall insulating films at side faces of the at least one gate electrode;
- (f) exposing an upper face of the at least one gate electrode and portions of a main face of the semiconductor wafer;

- (g) depositing a metal film having a high melting point over the semiconductor wafer; and
- (h) forming a metal silicide layer having a high melting point at the upper face of the gate electrode and the portions of the main face of the semiconductor wafer.
- 17. (Currently amended) A method of fabricating a semiconductor integrated circuit device, comprising the steps of:
- (a) forming a gate insulating film over a main face of a semiconductor wafer;
  - (b) depositing a gate electrode forming film over the gate insulating film;
- (c) forming a gate electrode by patterning the gate electrode forming film; and
- (d) after the step (c), subjecting the semiconductor wafer to a plasma processing in an atmosphere of a mixed gas of (a) a first gas less reactive withte Ge as compared to reactivity of with oxygen gas with Ge, and (b) a second gas having a function of etching Si,

wherein step (b) comprises the substeps of:

- (i) depositing an SiGe layer; and
- (ii) depositing a silicon layer over the SiGe layer.

18. – 20. (Cancelled).

21. (Original) A method of fabricating a semiconductor integrated circuit device according to Claim 17, wherein the second gas is a gas including fluorine.

- 22. (Original) A method of fabricating a semiconductor integrated circuit device according to Claim 21, wherein the gas including fluorine is CHF<sub>3</sub>.
- 23. (Original) A method of fabricating a semiconductor integrated circuit device according to Claim 17, wherein a concentration of Ge of the SiGe layer is equal to or larger than 10% of a total thereof.
- 24. (Original) A method of fabricating a semiconductor integrated circuit device according to Claim 17, wherein a side etching amount at two side faces of the gate electrode, after the step (d), is equal to or smaller than 40% of a length in a channel length direction of the silicon layer left after the step (c).
- 25. (Original) A method of fabricating a semiconductor integrated circuit device according to Claim 17, wherein after the step (d), further comprising the steps of:
  - (e) forming side wall insulating films at side faces of the gate electrode;
- (f) exposing an upper face of the gate electrode and portions of a main face of he semiconductor wafer;
- (g) depositing a metal film having a high melting point over the semiconductor wafer; and
- (h) forming a metal silicide layer having a high melting point at the upper face of the gate electrode and the portions of the main face of the semiconductor wafer.

26. (Original) A method of fabricating a semiconductor integrated circuit device according to claim 17, further comprising the steps of:

after the step (d), introducing a first impurity to an area for forming a field effect transistor of an n-channel type in the semiconductor wafer; and

after the step (d), introducing a second impurity, for forming a semiconductor area of a conductivity type opposite to a conductivity type of a semiconductor area formed by a first impurity, to an area for forming a field effect transistor of a p-channel type in the semiconductor wafer.

- 27. (Original) A method of fabricating a semiconductor integrated circuit device, comprising the steps of:
- (a) forming a gate insulating film over a main face of the semiconductor wafer;
  - (b) depositing a gate electrode forming film over the gate insulating film;
- (c) forming a gate electrode by patterning the gate electrode forming film;
- (d) after the step (c), subjecting the semiconductor wafer to a plasma processing in an atmosphere of a mixed gas of a first gas less reactive to Ge as compared with oxygen gas and a second gas having a function of etching Si, and wherein step (b) comprises the substeps of:
  - (i) depositing an SiGe layer; and
  - (ii) depositing a metal layer over the SiGe layer.
- 28. (Original) A method of fabricating a semiconductor integrated circuit device according to Claim 27, wherein a side etching amount at two side faces of the

gate electrode after the step (d) is equal to or smaller than 40% of a length in a channel length direction of the metal layer after the step (c).

- 29. (Original) A method of fabricating a semiconductor integrated circuit device according to Claim 27, wherein the step (b) includes a step of depositing the metal layer after introducing boron to the SiGe layer.
- 30. (New) A method of fabricating a semiconductor integrated circuit device according to Claim 1, wherein after said patterning, side edges of the SiGe layer are exposed, and wherein said first gas is sufficiently less reactive with Ge as compared with reactivity of oxygen gas with Ge such that during the plasma processing substantial side etching of the SiGe layer does not take place.
- 31. (New) A method of fabricating a semiconductor integrated circuit device according to Claim 30, wherein during the plasma processing any side etching of the SiGe layer is such that after the step (d), a side etching amount of the SiGe layer is equal to or less than 40% of a length, in a channel length direction, at a portion of the gate electrode forming film left after the step (c) other than the SiGe layer.
- 32. (New) A method of fabricating a semiconductor integrated circuit device according to Claim 31, wherein said side etching amount is equal to or less than 20% of said length.

- 33. (New) A method of fabricating a semiconductor integrated circuit device according to Claim 32, wherein said side etching amount is equal to or less than 10% of said length.
- 34. (New) A method of fabricating a semiconductor integrated circuit device according to Claim 17, wherein after said patterning, side edges of the SiGe layer are exposed, and wherein said first gas is sufficiently less reactive with Ge as compared with reactivity of oxygen gas with Ge such that during the plasma processing substantial side etching of the SiGe layer does not take place.
- 35. (New) A method of fabricating a semiconductor integrated circuit device according to Claim 34, wherein during the plasma processing any side etching of the SiGe layer is such that after the step (d), a side etching amount of the SiGe layer is equal to or less than 40% of a length, in a channel length direction, at a portion of the gate electrode forming film left after the step (c) other than the SiGe layer.
- 36. (New) A method of fabricating a semiconductor integrated circuit device according to Claim 35, wherein said side etching amount is equal to or less than 20% of said length.
- 37. (New) A method of fabricating a semiconductor integrated circuit device according to Claim 36, wherein said side etching amount is equal to or less than 10% of said length.